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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Winefred Washington

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EXAMINER

JACKSON, JENISE E

ART UNIT

PAPER NUMBER

2131

DATE MAILED: 10/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/611,402

Applicant(s)

WASHINGTON, WINEFRED

Examiner

Jenise E. Jackson

Art Unit

2131

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 December 2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-27 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-27 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 20060929.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-27 are rejected under 35 U.S.C. 102(e) as being anticipated by

Driscoll(6,763,363).

3. As per claim 1, Driscoll discloses an encryption key generator(col. 5, lines 15-17, fig. 1 sheet 1); a data buffer(col. 7, lines 61-67, col. 8, lines 1-5); and a memory controller that directs digital data to the data buffer with the digital data passing thorough the encryption key generator prior to entering the input/output register(see fig. 1 sheet 1, fig 2 sheet 2, col. 4, lines 30-46).

4. As per claim 2, Driscoll discloses a clock(see col. 6, lines 31-34); a key store(fig. 1 sheet 1); and a linear feedback shift register(see fig. 2 sheet 2) generates a pseudorandom bit pattern while the linear feedback shift register is enabled and stores a plurality of bits as at least one key in the key store(see col. 3, lines 46-52, col. 4, lines 31-46).

5. As per claim 3, Driscoll discloses where the pseudorandom bit pattern further includes a random number generator that receives the pseudorandom bit pattern from the linear feedback shift register and provides a random number for use by the digital device(fig. 1 sheet 1, fig. 2 sheet 2, col. 4, lines 47-51).

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6. As per claim 4, Driscoll discloses pseudorandom bit pattern that creates a bit stream; and a key store that stores portions of pseudorandom bit pattern as keys(see col. 3, lines 46-51, col. 4, lines 30-36, fig. 1 sheet 1).

7. As per claim 5, Driscoll discloses including a pseudo random number generator that selects a portion of the pseudorandom bit pattern to be random number(see col. 3, lines 46-64).

8. As per claims 6, 27, Driscoll discloses a data mixer mixes the bits of a byte of the digital data(fig. 1 sheet 1); and a combiner(26) that combines the byte with the key(fig. 1 sheet 1, col. 4, lines 30-46).

9. As per claim 7, a Driscoll discloses a subkey that creates a sub-key based on data from the memory controller and the key; and a combiner that combines the sub-key with the digital data(col. 7, lines 25-32).

10. As per claim 8, Driscoll discloses a data mixer that mixes the bits of a byte of digital data; and a combiner that combines the byte with the sub-key(fig. 1 sheet 1, col. 4, lines 3-46, col. 7, lines 25-32).

11. As per claim 9, Driscoll discloses a memory controller that generates a memory request to retrieve encrypted digital data; and encryption circuit with a plurality of key decrypts the encrypted digital data in response to the memory request of the memory controller(see fig. 1 sheet 1, col. 5, lines 33-55).

12. As per claim 10, Driscoll discloses a combiner that combines one of the keys with a bank and row information contained in the memory request that results in a sub-key(fig. 1 sheet 1, col. 4, lines 3-46, col. 7, lines 25-32).

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13. As per claim 11, Driscoll discloses a data mixer that unmixes bits within a byte after the sub-key is applied to encrypted digital data(see fig. 1 sheet 1, col. 4, lines 3-46, col. 4, lines 3-46, col. 5, lines 33-55).
14. As per claim 12, Driscoll discloses generating at least one key, placing the digital data in a data buffer; and encrypting the digital data using the at least one key while the digital data is being placed(see col. 3, lines 46-64, col. 5, lines 25-32, col. 8, lines 22-32).
15. As per claim 13, Driscoll discloses generation of a clock signal(see col. 6, lines 31-34), creating a pseudorandom bit pattern, and storing at least one portion of the pseudorandom bit pattern in a key store as a key(see col. 3, lines 46-51, col. 4, lines 30-36, fig. 1 sheet 1).
16. As per claim 14, Driscoll discloses where the pseudorandom bit pattern is generated by a linear feedback shift register(fig. 1 sheet 1, fig. 2 sheet 2, col. 4, lines 47-51).
17. As per claims 15, 21, Driscoll discloses generating a random number from the pseudorandom bit pattern(fig. 1 sheet 1, fig. 2 sheet 2, col. 3, lines 46-64).
18. As per claim 16, Driscoll discloses a pseudo random bit generator that creates a pseudorandom bit pattern; and a key store that stores portions of the bit stream as keys(col. 3, lines 46-54).
19. As per claim 17, Driscoll discloses selecting a portion of the pseudorandom bit pattern to be a random number(col. 3, lines 46-54, col. 5, lines 14-24).
20. As per claim 18, Driscoll discloses mixing the bits of a byte of the digital data with a data and combining the byte with the key(fig. 1 sheet 1, col. 4, lines 30-46).
21. As per claim 19, Driscoll discloses generating a sub-key with data from the memory controller and the key; and combining the sub-key with the digital data(col. 7, lines 25-32).

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22. As per claim 20, Driscoll discloses mixing the bits of byte of digital data with a data mixer; and combining the byte with the sub-key(fig. 1 sheet 1; col. 4, lines 3-46, col. 7, lines 25-32).

23. As per claim 22, Driscoll discloses generating a memory request to retrieve encrypted digital data; and decrypting the encrypted digital data using at least one key(see fig. 1 sheet 1, col. 5, lines 15-55).

24. As per claim 23, Driscoll discloses combining the at least one key with a bank and row information contained in the memory request to generate a sub-key(col. 8, lines 21-63).

25. As per claim 24, Driscoll discloses unmixing a byte of encrypted digital data with a data mixer(see col. 5, lines 33-55).

26. As per claim 25, Driscoll discloses an encryption circuit with at least one key(fig. 1 sheet 1, col. 5, lines 15-24); a data buffer filled with digital data(see col. 7, lines 60-67, col. 8, lines 1-5), a memory controller that directs and stores the digital data in the rewriteable memory with the digital data being encrypted by the encryption circuit and the at least one key after the digital data has entered the data buffer but prior to being stored in the rewritable memory(see fig. 1 sheet 1, fig 2 sheet 2, col. 4, lines 30-46).

27. As per claim 26, Driscoll discloses a pseudorandom bit stream generator that creates a pseudorandom bit stream; and a key store that stores the at least one key that is selected from the pseudorandom bit stream(col. 3, lines 46-54).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jenise E. Jackson whose telephone number is (571) 272-3791. The examiner can normally be reached on M-Th (6:00 a.m. - 3:30 p.m.) alternate Friday's.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

September 29, 2006

